KIT502 ASSIGNMENTS 1 & 2

Share and Smile (S&S)

Important Rules for Group Assignment

- The assignment is a group-based project involving four members from this unit, and individual work is not permitted. It is advisable for all group members to belong to the same tutorial, although there is an option to form a group outside of the assigned tutorial. It is the group's responsibility to schedule regular meetings to make progress in the assignment.
- During meetings, it is essential to record meeting minutes that include the date, time, and agreed-upon tasks along with their respective due dates.
- In your first tutorial in week 2, you must register your group in MyLO. Please note that registration will only be available until week 3.
- Regardless of the number of group members, there is no difference in the scope of work. All groups are expected to complete the same requirements. The only exception is if more than one member withdraws the enrolment, resulting in two remaining members in the group.
- For the assignment, your individual mark will be determined through peer and self-evaluation. This evaluation may lead to variations in individual marks compared to the group mark. It is crucial to complete the peer and self-evaluation after submitting the assignment, even if you have already informed or discussed any issues with the unit coordinator.

Introduction

Share and Smile (S&S) is a web-based charity and donation platform. The platform includes various charity project for health, education, and environment. The platform should enable users to browse and select various charitable causes, make donations, and monitor the progress of the campaigns they contribute to. The primary focus is on creating a user-friendly and secure platform.

The platform has three project administrators to handle the project related to health, education, and environment respectively and one System Manager as a default. You must create an account for each of the four roles. S&S system operates entirely online, requiring registration of the users. During the registration, individual must provide their name, email address, password, and date of birth to make donation and/or create a campaign.

Due date

- Assignment 1: Week 5 Wednesday (March 27, 5pm)
- Assignment 2: Week 13 Friday (May 31, 5pm)

Requirement of Assignment 1 (15%)

Assignment 1 focuses solely on the client side. Although scripting is involved, its purpose is to validate user information during registration. Most of the Assignment 1 revolves around planning, with limited functionalities. However, it is crucial to plan thoroughly for Assignment 2 during this stage, as a well-thought-out plan will facilitate smoother progress in the next assignment.

The allocated percentage for Assignment 1 (15%) is for the time required for administrative tasks such as forming a group, familiarizing yourselves with one another, scheduling regular meeting times, and other related activities within the group.

The subsequent section outlines potential sections that can be grouped into different pages. However, the specific structure of the website is left to the decision of your group.

Initial Page

This starting/entry point of the approval system will include the following features:

- A link to a registration page for new users
- A login/logout section
- A link to see the list of charity
- Optional additional information to create a welcoming introduction to the site.

Note: The login/logout section is a place holder for user authentication which will be done in Assignment 2.

Registration Page

This is the registration page where new users can sign up for the system. Please refer to the introduction section above for further details.

At this stage, it is important to implement proper input validation, which includes the following checks:

- Double entry password verification
- Password requirements:
  - 5-10 characters in length
  - At least 2 uppercase letters, 1 number, and 1 special character.

For Assignment 1, it is not necessary to store the registration data to a database table yet.

Charity List Page

This is a page which displays a list of charity projects with following details: charity name, category, description, goal amount and progress towards the goals.
In this page, users should be able to filter and search the charity project based on following categories: health, education, and environment.

Please note that for Assignment 1, the expense page does not need to store any changes to the list or the items within it. Therefore, no database access is required for this stage.

Manage Charity Page

This is the page where the project administrator can add, view, edit and remove the charity project in the platform. The project administrator has access to a complete list of charity project belongs to them in the platform (i.e., project administrator for health only can access to the charity project related to health).

On this page, the project administrator can perform the following actions:

- Create a charity project (it should include the following information: name, description, goal amount, progress)
- Edit the charity project
- Delete the charity project
- Update the progress of the project (the status of the project)
- View donation details

Please note that for Assignment 1, the manage charity page does not need to store any changes to the list or the items within it. However, you are required to design how the database tables will be structured for the entire assignment.

Master Charity Page

This is the master charity page where the system manager can view, edit, and remove charity project. The system manager has access to the complete list of charity projects in the platform.

On this page, the system manager can perform the following actions:

- View the list of charity projects.
- Edit the charity project information including their details (name, description, category, goal amounts and progress).
- Remove charity project from the system, regardless of project status.

Please note that for Assignment 1, the master charity page does not need to store any changes to the list or the items within it. However, you are required to design how the database tables will be structured for the entire assignment.

Database table design is an important aspect of the assignment and should be considered for future implementation.

Database Tables: Entity-Relationship Diagram for the Website

It is essential to plan the structure of the database tables for the website. This involves creating an Entity-Relationship (ER) diagram, which visually represents the entities, attributes, and relationships within the database.

The ER diagram will provide a clear overview of how different components of the website (final project, i.e. Assignment 2), such as users, expenses, and statuses, are related to each other. It will help in designing the database schema and ensuring data integrity and efficient data management.

Consider including entities such as "Users" with attributes like name, email, and role. Additionally, entities like "Expenses" with attributes such as amount, description, category, and supporting documents can be included. Relationships between entities, such as the association between users and their respective expenses, should also be represented in the ER diagram.

A well-designed ER diagram will serve as a blueprint for the database tables, ensuring a structured and organized approach to storing and managing data for the website.

For Assignment 1, you are not required to create actual database tables in the server. However, it is necessary to present your database table design for Assignment 2. You must clearly indicate the relationships between different tables using primary keys and foreign keys in your database design.

To create your database design, you can use any software such as StarUML, Microsoft Word, Paint, or even hand-drawn diagrams. The format of the diagram is flexible, as long as it effectively represents your table design.

It is crucial to carefully read the Assignment 2 specification provided below to ensure your database design aligns with the requirements outlined in the assignment. This will help you design the appropriate tables and relationships to fulfill the objectives of Assignment 2.

Summary of Deliverables

For Assignment 1, you are required to submit the following items:

- Initial Page: This is the starting or entry point of the system where users can access the main features and navigate to different sections of the website.
- Registration Page (or Registration Modal Form): This page allows new users to register for the system. It should include necessary fields such as name, email address, password, and date of birth.
- Charity List Page: This page enables users to see the list of ongoing charity projects.
- Manage Charity Page: This page is specifically for project administrators, allowing them to view, create, edit, and remove charity projects. They should have access to the complete list of charity projects that belong to them.

- Master Charity Page: This page is specifically for system managers, allowing them to view, edit, and remove charity projects. They should have access to the complete list of the charity project in the platform.
- ER Diagram: As per the Assignment 2 specification, you need to submit an Entity-Relationship (ER) diagram that depicts the database table design. The ER diagram should clearly indicate the relationships between different tables using primary keys and foreign keys.
- Our marking environment is the same as your tutorial lab setting: ictteach-usermin

Requirement of Assignment 2 (35%)

When you create a Laravel project called "myApp, or any name you selected" each group will have access to a MySQL per account (e.g., kit502-group-nn) that can be utilized for your project.

Alternatively, if your group prefers to use SQLite, you can utilize the account of one of your group members to set up and manage the SQLite database for your project.

Initial Page

For Assignment 2, it is required that the login/logout section of the site authenticates users with encryption. This ensures secure access to the system.

In addition, the website should be fully functional, incorporating interactions with the database. This means that the necessary interactions between the client-side and server-side must be implemented and working effectively.

You need to ensure that user authentication is handled securely, encrypting sensitive information such as passwords during login/logout processes.

Furthermore, the website should support seamless communication between the client and server sides, allowing for smooth data retrieval, storage, and updates in the database.

By fulfilling these requirements, the website will be fully functional, providing a secure and reliable user experience while effectively managing interactions with the database.

Registration Page

The registration page is responsible for storing the registration data provided by users. Ensuring the proper storage and management of registration data is crucial for maintaining the integrity and security of the system, as well as facilitating user management and system functionality.

Dashboard

The Dashboard page is exclusively accessible to registered users. Depending on their role, the dashboard will display different summaries of expenses and relevant information:

1. Registered Users:
    - Donation History: This section shows the history of the donation they have made including details of the charity projects and donation amounts.
    - Charity Project: This section shows the current process of the ongoing charity project they have donated and how close it is to reaching its goal.
2. Registered Project Administrator:

Project Administrator only can perform the below activities for the charity projects belong to them.

- Project Completed: This section shows the charity projects that are completed.
- Ongoing Project: This section shows ongoing charity projects.

3. System Manager:
    - User Summary: This section displays the number of registered donator, project administrator.
    - Charity Project Summary: This section presents the number of the charity projects based on their status (i.e., completed and ongoing)

The Dashboard page provides a concise overview of the charity project statuses and relevant information based on the user's role, facilitating efficient management and decision-making within the system.

Charity List Page

This page should be available for everyone to view. If anyone wants to donate, they need to login.

All the requirements described in the charity list page in assignment 1 should be interacted with the database.

It displays the charity projects which are ongoing only. Only registered users can donate for the ongoing charity project. The bank/credit card information is required to donate.

Profile Page

The Profile page is accessible only to logged-in users. Users can change their password on the Profile page. This feature ensures that users can maintain the security and integrity of their accounts by periodically updating their passwords.

Manage Charity Page

The Manage Charity page is exclusively accessible to project administrators and serves as a centralised platform for managing the charity project. It enables project administrators to interact with the database and perform various actions related to the charity projects belong to them. The following functionalities are available:

1. Comprehensive charity project list: The Manage Charity page provides the project administrators with a complete list of the charity projects depending on the status (completed and ongoing).
2. Create a new charity project: The page allows the project administrator to create the new charity project with the details – name, description, goal amount.

3. Edit charity project: Project administrator has the authority to modify the details of ongoing charity projects and update the current progress. For example, they can change the description of the charity project if necessary.
4. Delete charity project: Project administrator only can remove the charity project from the system when there is no donation made to the project.

Master Charity Page

The Master Charity page is exclusively accessible to System Manager and serves as a centralised platform for managing platform. It enables System Managers to interact with the database and perform various actions related to charity projects. The following functionalities are available:

1. Comprehensive charity project list: The Manage Charity page provides the system manager with a complete list of the charity projects depending on the status (completed and ongoing).
2. Edit charity project: System Manager has the authority to modify the details of ongoing charity projects and update the current progress. For example, they can change the description of the charity project or change the goal amount for a project.
3. Delete charity project: System Manager only can remove the ongoing charity project from the system regardless of the donation amount received in the project. When the system manager deletes the project, the donated amount in the project is returned to the donator with the corresponding amount. A summary indicating where to return and the amount required will suffice.

User Management Page

The User Management page is accessible exclusively to the System Manager. Each role has specific privileges and responsibilities within this page. The following functionalities are available:

System Manager:

1. User List: The System Manager has access to a complete list of donator and project administrators. This enables them to have an overview of all users within the system.
2. Project Administrator Appointment: The System Manager has the privilege to appoint or remove the Project administrator for each category (health, education, and environment). Project administrator can admin ONLY one category at any given time but there can be many projects administrators in one category.

Summary of Deliverables

For the completion of the project, the following deliverables are expected:

1. Fully Functional Web Application: A web application that meets all the specified requirements, including user registration, login/logout functionality, with all the other specified features.
   Note: Our marking environment is the same as your tutorial lab setting: ictteach-usermin
2. Source Code: The source code of the web application should be stored in the group directory within the usermin environment. This directory should contain all the necessary files and folders related to the application's development. Last modified date matters. Do NOT touch any file after the due date.
3. Database Schema: The database schema, outlining the structure and relationships of the database tables, should be included in the project documentation or Readme. This schema helps in understanding the organization of data within the system.
4. Documentation: A Readme file should be prepared and submitted to the designated MyLO submission folder. It should contain essential information, including:
   - Path to the group's account in usermin, specifying the location of the web application.
   - Credentials of the System Manager, Project Administrator, and a couple of users. This information enables access to the application with different user roles for testing and evaluation purposes.
5. A short video: demonstrating the highlights of the project. For the demonstration of your completed webpage, create a video with a duration of up to 5 minutes. In this video, assume you are presenting the webpage to a client. You may include a verbal explanation to guide them through its features and design elements if helpful.
6. The last modified dates of the assignment files hold significance, and it is crucial to adhere to them. It is essential that no modifications or changes are made to the files after the specified due date.

Due date

- Assignment 1: Week 5 Wednesday (March 27, 5pm)
- Assignment 2: Week 13 Friday (May 31, 5pm)

Submission method

For the assignment submission, you are required to follow the submission process using both MyLO and usermin. The Readme file, containing essential information, should be submitted specifically to MyLO. The Readme file must include the path to your group's account in usermin, which can be accessed at the following URL: (/groupwork/kit502-groupwork/your-group-number/theassignmentfilename). It is important to note that the last modified dates of the assignment files hold significance. To maintain integrity, please refrain from making any modifications to the files after the specified due date.

The Readme file for Assignment 2 should include the login credentials for the system manager, along with any other pertinent information. These credentials will enable the marker to access and evaluate the system manager's privileges and functionalities.

By following these submission instructions and including the necessary details in the Readme file, you will ensure a comprehensive and organized submission process for your assignment.

Assignment Group Account and Database Setup

Each group will be provided with an account specifically for the group assignment. This account will be named "kit502-group-##" where "##" represents your group number. Please make sure to use this account for your collaborative work.

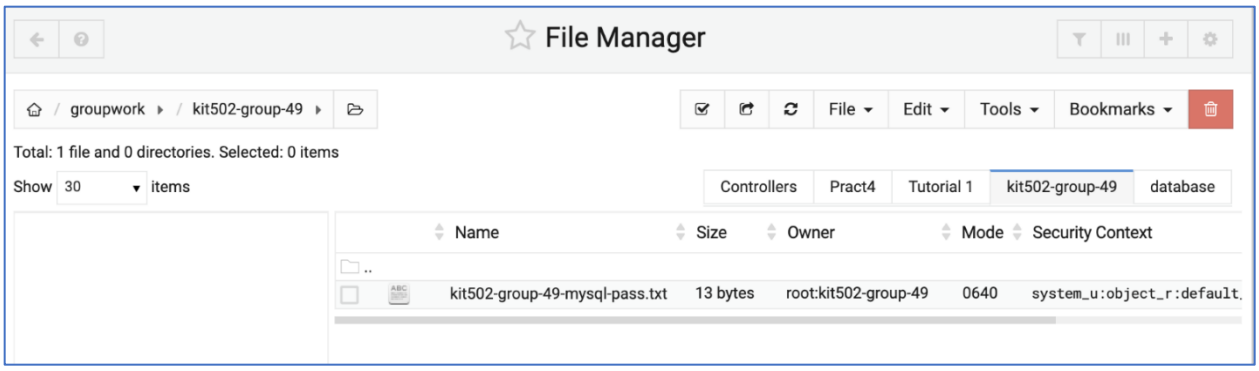
For Assignment 2, you will need to run the Laravel installation command in one of the group member's accounts. After the installation is complete, you should move the Laravel project to the group account using the "mv myApp kit502-group-##" command. This ensures that the project is stored in the designated group account for submission.

In order to use a database for Assignment 2, you have two options. If you prefer to use MySQL, you can find the necessary information, including the password, in the file named "kit502-group-##-mysql-pass.txt" within the group account. This file will provide you with the credentials needed to access the MySQL database via PhpMyAdmin.

Alternatively, if you prefer to use phpliteadmin, you can use one of the group member's accounts to create the required tables. This allows you to utilize phpliteadmin for database management during the development process.

By following these instructions, you will be able to set up the necessary account and database environment for Assignment 2. Please ensure that you collaborate effectively and utilize the provided resources to successfully complete your assignment.

For example:



Group Work Evaluation

To ensure fairness and accuracy in grading, your final mark for Assignment 1 and Assignment 2 will be revised based on the peer and self-evaluation process. It is important that every group member actively participates in this evaluation.

Please carefully complete the peer and self-evaluation forms with any other required form(s), providing qualitative comments and feedback for each member of your group. This evaluation will contribute to the determination of your final mark. It is crucial that all group members complete the evaluation process, as the final marks will not be released until all evaluations are submitted.

By engaging in the peer and self-evaluation, you contribute to the overall assessment of your group's work and help maintain the integrity of the evaluation process.

Rule for Individual mark for group work

Individual mark will be calculated based on the below category.

Category	Range (out of 100)	Ratio
A	81 - 100	1
B	31 - 80	The average peer evaluation mark received
C	0 - 30	0

Your individual mark for the assignment will be calculated based on the average peer evaluation mark received from your group members, as well as your self-evaluation mark. It is important to note that your individual mark may be adjusted based on the evaluation rules outlined above.

To provide you with a clearer understanding of how this calculation works, here are a few examples:

Example for Category A)

Group Mark Received		80
Peer Evaluation mark		
Group member 1	70	
Group member 2	80	
Group member 3	90	

Yourself	100	
Average	85	
Individual Mark (Based on Category A): 80*0.85		68

Example for Category B)

Group Mark Received		80
Peer Evaluation mark		
Group member 1	50	
Group member 2	60	
Group member 3	70	
Yourself	100	
Average	70	
Individual Mark (Based on Category B): 80*0.70		56

Example for Category C)

Group Mark Received		80
Peer Evaluation mark		
Group member 1	5	
Group member 2	0	
Group member 3	10	
Yourself	100	
Average	28.75	
Individual Mark (Based on Category C): 80*0		0

You will only be able to view the group mark for Assignment 1. The individual marks for both Assignment 1 and Assignment 2 will be released at the end of the semester, along with the Assignment 2 marks.

Marking Information

Your submitted work will be evaluated and marked in the usermin environment. It is important to ensure that your assignment functions properly and is compatible with the specified browser version in our lab. If your assignment fails to work correctly or encounters compatibility issues in the lab environment (I.e., your submitted assignment does not work properly in the usermin environment), it may not be marked.

To avoid any potential issues, we recommend thoroughly testing your assignment in the lab environment or using the same browser version to ensure its functionality and compatibility. This will help ensure that your hard work is properly assessed and marked.

Academic Integrity

At the University of Tasmania, academic integrity requires all students to act responsibly, honestly, ethically, and collegially when using, producing, and communicating information with other students and

staff members. The University community is committed to upholding the Statement on Academic Integrity.

Breaches of academic integrity such as plagiarism, contract cheating, collusion and so on are counter to the fundamental values of the University. A breach is defined as being when a student:

a. fails to meet the expectations of academic integrity; or
b. seeks to gain, for themselves or for any other person, any academic advantage or advancement to which they or that other person is not entitled; or
c. improperly disadvantages any other member of the University community.

The University and any persons authorised by the University may submit your assessable works to a text matching service, to obtain a report on possible breaches such as plagiarism or contract cheating. Substantiated breaches can result in a range of sanctions which are outlined in the Student Academic Integrity Ordinance.

More information is available from the Academic Integrity site for students on the Student Portal.

Marking Criteria

Assignment 1 submitted everything required?

Criteria	HD	DN	CR	PP	NN
Overall structure is clear and functions with the given specification are completed (ILO 1) 50%	Have implemented a site that provides the functions that best support the users' needs using current best practice. All the required functionalities are correctly implemented	Have implemented most of the requirements in a manner that makes the site functional and easily accessible.	Have fully implemented the basic functions required for the site to an acceptable level and / or not all functions are implemented or operated correctly.	Have identified and attempted to provide only the basic functional requirements, and/or not all functions are implemented or operate correctly.	Have not included enough requirements to meet the basic functional requirements and /or most of the functions are not implemented or operate correctly.
Design and implement a web site to meet the specification. Right tools used for appearance (ILO 2) 20%	Have designed and completed all the requirements to a high standard. Have provided logical and meaningful implemented with minimal mistakes and minimal incorrect spelling/typing errors. Useful and meaningful comments included for all key aspects all the code.	Have a site that has a consistent tone and style with each section divided logically and meaningfully with minimal mistakes and minimal incorrect spelling/typing errors. Useful and meaningful comments included for most of the key aspects of the code.	Have divided the content of each section in a logical and meaningful way. There are minimal incorrect spelling/typing errors. Some useful and meaningful comments included in the code.	Have divided the content of main sections in a logical and meaningful way some meaningful comments included in the code with an incorrect spelling/typing error.	Some attempt to apply design principles evident, but not to the required standard and / or not consistently applied with no clear separation of design and content. A few meaningful comments included in the code.
Database design in ER diagram (ILO 3) 30%	Have considered all necessary data and it can be stored in successfully. Fully ready to convert it to SQL statements	Have considered all necessary data and it can be stored in successfully. Fully ready to convert it to SQL statements with minor issues	Have considered most of possible situations. A little adjustment could be possible	Have considered fundamental tables. Major adjustment may be recommended	Fail to provide the database tables

Assignment 2

Criteria	HD	DN	CR	PP	NN
Overall structure is clear and functions with the given specification are completed (ILOs 1, 2, and 3) 20%	Have implemented a site that provides the functions that best support the users' needs using current best practice	Have implemented most of the requirements in a manner that makes the site functional and easily accessible	Have fully implemented the basic functions required for the site to an acceptable level and / or not all functions are implemented or operate correctly	Have identified and attempted to provide only the basic functional requirements, and / or not all functions are implemented or operate correctly	Have not included enough requirements to meet the basic functional requirements and / or most of the functions are not implemented or operate correctly
Access management: • Registration • sign-in and out • access levels (ILOs 1 and 2) 20%	All the requirement completed in professional manner	Registration, sign in, sign out, the working fine and attempted to implement the access level	Registration, sign in, sign out completed	Registration, sign in completed	Registration completed
Functionalities • Framework is well utilised • Form validation • All functions related to: - Dashboard - Each of the required pages (ILOs 1, 2, 3) 50%	Implemented all required functions in a professional manner	Implemented any 70% of the functions.	Implemented any 60% of the functions	Implemented any 50% of the functions	Attempted or implemented any one of the functions

Design of site and user • Consistency • Usability • Sufficient comments in coding • Works for different devices • Readme.txt file including login credential, any other information. • File structure • No spelling errors. (ILO3) 10%	Have completed all the requirements to a high level, with a consistent, professional look and feel throughout. In addition to useful and meaningful comments in the code, human readable comments included for better maintainability	Have designed and completed all the requirements to a high standard. Have provided logical and meaningful implementation with minimal mistakes and minimal incorrect spelling/typing errors Useful and meaningful comments included for all key aspects of the code	Have a site that has a consistent tone and style with each section divided logically and meaningfully Useful and meaningful comments included for most of the key aspects of the code	Have divided the content of each section in a logical and meaningful way Some useful and meaningful comments included in the code	Some attempt to apply design principles evident, but not to the required standard and / or not consistently applied with no clear separation of design and content.